

463194



Mark Kluger  
<mkluger@dajak.com>

To: Robert Sanchez/R3/USEPA/US@EPA  
Subject: RE: Galaxy/Spectron Site

02/11/2002 03:31 PM  
Please respond to  
mkluger

Responding to your questions and comments in reverse order:

PHS has been around a very long time for the treatment of contaminants at the surface. It is hard for me to visualize its use for in-situ treatment scenarios.

STAR Environmental can design horizontal wells with screened intervals in excess of 1,500 feet. Thus, 400 feet is no problem.

Lou is working on your proposal as we speak, I mean, write.

Lou indicated that he will forward information regarding the use of horizontal wells for VOC remediation to you soon.

Take care.

Mark Kluger  
Dajak, LLC  
7 Red Oak Road  
Wilmington, DE 19806  
302-655-6651 - Phone  
302-420-6542 - Mobile Phone  
302-655-0912 - Fax  
mkluger@dajak.com

-----Original Message-----

From: Sanchez.Robert@epamail.epa.gov  
[mailto:Sanchez.Robert@epamail.epa.gov]  
Sent: Monday, February 11, 2002 3:06 PM  
To: mkluger@dajak.com  
Cc: starcompany@erols.com  
Subject: Re: Galaxy/Spectron Site

Mark,

1. Could you please fax to me a copy (or web link) of the paper that discusses the use of horizontal wells at a site which had VOC contamination. I believe the location was in North Carolina(?), Lou mentioned that he had this paper 'sitting on his desk.' I think it was one of the few sites that had VOCs vs. petroleum contamination.
2. Also Lou was putting together some rough estimates for me to possibly include in a Feasibility Study (FS) alternative.
3. Could a Hoz well be designed to go 400 feet? Have they done any "nesting" of Hoz well supply air to distribute air flow equally on long runs?

Things are coming to a head so the sooner I have this info the better.  
Thanks, Rob

PS: Have you or Lou had any experience with Peat Humic Substances (PHS)

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in enhancing bacteria efficiency? I have been following the use of PHS in wastewater treatment plants and it seems to be a logical transition for it to be used for "in-situ" bio-remediation. Of course I may just be a sucker for a good sales pitch!

PHS Link: <http://www.engr.ucr.edu/~mdeshuss/ja15.pdf>

Star Env. Link:

<http://www.angelfire.com/biz/horizontalwells/page10.html>

CC: Lou

Robert Sanchez, Remedial Project Manager

US EPA Region III, 3HS23

1650 Arch Street

Philadelphia, PA 19103-2029

Office (215)814-3451

Fax (215)814-3002

email "sanchez.robert@epa.gov"

----- Forwarded by Robert Sanchez/R3/USEPA/US on 02/11/02 02:31 PM -----

Robert Sanchez

01/24/02 06:43

PM

Site(Document link: Robert Sanchez)

To: mkluger@dajak.com

cc:

Subject: Re: Galaxy/Spectron

Thanks for not charging me for your time...LOL.

Your description of the Hoz. system will help us determine the best most cost effective remedy for this site.

Could Lou provide us a breakdown cost estimate for installing Bio-sparging wells that are say 300 feet with blowers, electrical hookup, design, etc.

If we decide to use Hoz system I will need to evaluate costs.

I think we still have concerns about the possible "perched" contamination, although this is Sandy/silt vs clay. Also we are still concerned about the uneven bedrock (e.g. drilling through bedrock peaks that are not fractured). On the other hand it may provide long-term treatment assistance if installed near the stream where contaminated water may be coming up from depth, and certainly avoids fdns, old sewers at surface.

Thanks again

PS: Were you able to get to lunch or did we run to late? ...and don't forget only 19 days to Feb 14th!

Robert Sanchez, Remedial Project Manager

US EPA Region III, 3HS23

1650 Arch Street

Philadelphia, PA 19103-2029

Office (215)814-3451

Fax (215)814-3002

email "sanchez.robert@epa.gov"

AR303075

Mark Kluger  
<mkluger@daja  
Sanchez/R3/USEPA/US@EPA  
k.com>

To: Robert

cc:

Subject: Galaxy/Spectron Site

01/24/02  
05:29 PM  
Please  
respond to  
mkluger

Thank you for inviting Lou Fournier and me to participate in your meeting today. I enjoyed seeing you again.

Please do not hesitate to contact me should you require any additional information.

Mark Kluger  
Dajak, LLC  
7 Red Oak Road  
Wilmington, DE 19806  
302-655-6651 - Phone  
302-420-6542 - Mobile Phone  
302-655-0912 - Fax  
mkluger@dajak.com

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